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(New) A method of treating a human patient comprising the step of site-specific instillation of cells into the patient, wherein the cells are selected from the group consisting of endothelium, smooth muscle, fibroblasts, monocytes, macrophages, and parenchymal cells.

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(New) The method of claim 77, wherein the cells produce protein in the patient.

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(New) The method of claim 78, wherein the protein is secreted by the cells.

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(New) The method of claim 78, wherein the protein has a therapeutic effect.

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(New) The method of claim 80, wherein the protein is an angiogenic factor.

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(New) The method of claim 78, wherein the protein has a diagnostic effect.

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(New) The method of claim 77, wherein the cells are genetically altered *in vitro* prior to being instilled to the patient.

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(New) The method of claim 77, wherein the cells are instilled into a body vessel within the patient.

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(New) The method of claim 84, wherein the vessel is a blood vessel.

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(New) The method of claim 84, wherein the cells are instilled intravenously.

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(New) The method of claim 86, wherein the cells are instilled with a catheter.

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(New) The method of claim 87, wherein the catheter comprises a balloon means.

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(New) The method of claim 88, wherein the balloon means comprises two spaced apart inflatable members.

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~~90~~ (New) The method of claim 89, wherein the balloon means further comprises an instillation port positioned between the inflatable members.

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~~91~~ (New) The method of claim 88, wherein the balloon means comprises an inflatable member near the distal end of the catheter.

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~~92~~ (New) The method of claim 91, wherein the balloon means further comprises an instillation port proximal to the inflatable member.

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~~93~~ (New) The method of claim 84, wherein the cells are instilled surgically.

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~~94~~ (New) The method of claim 84, wherein the cells are instilled percutaneously.

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~~95~~ (New) The method of claim 84, wherein the cells are instilled by high pressure instillation.

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~~96~~ (New) The method of claim 84, wherein the cells are instilled by injection into the patient.

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~~97~~ (New) The method of claim 96, wherein the injection occurs in a capillary bed.

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~~98~~ (New) The method of claim 77, wherein the cells are instilled to treat a cardiovascular disease.

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~~99~~ (New) The method of claim 98, wherein the cardiovascular disease is ischemic cardiomyopathy.

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~~100~~ (New) The method of claim 77, wherein the cells are instilled into the heart.

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~~101~~ (New) The method of claim 77, wherein the cells are instilled into the kidney.